





PAGER Version 4

Created: 1 day, 0 hours after earthquake

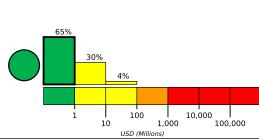
M 5.7, 101 km NE of Hihifo, Tonga

Origin Time: 2023-12-12 05:33:10 UTC (Mon 17:33:10 local) Location: 15.2023° S 173.2521° W Depth: 10.0 km

Estimated Fatalities 10,000 1,000



Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likelihood of casualties and damage.



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	209k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

15.9°S

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1987-10-06	329	7.2	IV(19k)	_
1999-01-05	373	5.9	VII(15k)	_
2006-09-28	204	6.9	IV(197k)	0

Selected City Exposure

from Ge	eoNames.org	
MMI	City	Population
III	Hihifo	1k
Ш	Gataivai	1k
Ш	Vailoa	1k
Ш	Nofoaliʻi	2k
Ш	Leulumoega	1k
Ш	Lotofaga	1k
Ш	Mulifanua	5k
Ш	Asau	7k
Ш	A'opo	0
III	Apia	40k
П	Lufilufi	1k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Hihifo